

032604



17510 U.S. PTO

BAKER BOTTS LLP

Please type a plus sign (+) inside this box → ⊕

UTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	090936.0505
First Inventor	Thomas E. Owen, et al.
Title	Measurement of * see attached
Express Mail Label No.	EV352394195US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 19]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
4. ☒ Claim(s) [Total Sheets 5]  
☒ Abstract of the Disclosure [Total Sheets 1]
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 6]
5. Oath or Declaration [Total Pages ]
  - a. ☐ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
  - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

## ADDRESS TO:

Commissioner for Patents  
Mail Stop Patent Application  
P. O. Box 1450, Alexandria, VA 22313

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement & PTO-1449 (3 pgs) ☐ Copies of IDS Citations (non-patent)
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: .....

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: .....

Prior application information: Examiner .....

Group Art Unit: .....

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label

31625

or ☐ Correspondence address below

Name

Address

City

State

Zip Code

Country

Telephone

Fax

Name (Print/Type)

Ann C. Livingston

Registration No. (Attorney/Agent)

32,479

Signature

Date

3/26/04

17510 U.S. PTO  
10/810103

032604

**Addendum Sheet 1****\*Question 4 Addendum**

4.a. Drawings are ☒ formal ☐ informal

**\* Question 5 Addendum**

5.c. ☐ An unsigned oath or declaration is included.

**\* Question 8 Addendum**

8.d. ☐ A sequence submission will follow.

**\* Question 9 Addendum**

9.a. ☐ Assignment documents will follow.

9.b. ☐ Assignment documents have been filed in parent application No.

**\* Question 11 Addendum**

11.a. ☐ English translation will follow.

**\* Question 12 Addendum**

12.a. ☐ Copies of IDS citations will follow.

**\* Question 15 Addendum**

15.a. ☐ Certified copies of priority documents will follow.

15.b. ☐ Certified copies of priority documents have been filed in parent application No.

Use the space below for additional information

The accompanying application claims the benefit of U.S. Provisional Application Serial No. 60/457,906 filed March 27, 2003.

This invention was made under a contact with the U.S. Department of Energy, Contract No. DE-FC21-96MC33033.

Title (continued):

Measurement of Nitrogen Content in a Gas Mixture by Transforming the Nitrogen into a Substance Detectable with Nondispersive Infrared Detection



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FEE TRANSMITTAL  
for FY 2004

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 464

## Complete if Known

Application Number	unassigned
Filing Date	March 26, 2004
First Named Inventor	Thomas E. Owen, et al.
Examiner Name	unassigned
Group Art Unit	unassigned
Attorney Docket No.	090936.0505

## METHOD OF PAYMENT

- 1.
- ☐
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number	50-2148
Deposit Account Name	Baker Botts LLP

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17☒ Applicant claims small entity status. See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☐ Other

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Small Entity

Fee (\$)	Fee (\$)	Fee Description	Fee Paid
770	385	Utility filing fee	385
330	165	Design filing fee	
510	255	Plant filing fee	
740	370	Reissue filing fee	
160	80	Provisional filing fee	

SUBTOTAL (1) (\$ 385

## 2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
24	20** = 4	9	36
4	3** = 1	43	43
Multiple Dependent			

Large Entity Small Entity

Fee (\$)	Fee (\$)	Fee Description
18	9	Claims in excess of 20
86	43	Independent claims in excess of 3
280	140	Multiple dependent claim, if not paid
84	42	** Reissue independent claims over original patent
18	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 79

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity Fee (\$)	Small Entity Fee (\$)	Fee Description	Fee Paid
130	65	Surcharge - late filing fee or oath	
50	25	Surcharge - late provisional filing fee or cover sheet	
130	130	Non-English specification	
2,520	2,520	For filing a request for ex parte reexamination	
920*	920*	Requesting publication of SIR prior to Examiner action	
1,840*	1,840*	Requesting publication of SIR after Examiner action	
110	55	Extension for reply within first month	
400	200	Extension for reply within second month	
920	460	Extension for reply within third month	
1,440	720	Extension for reply within fourth month	
1,960	980	Extension for reply within fifth month	
320	160	Notice of Appeal	
320	160	Filing a brief in support of an appeal	
280	140	Request for oral hearing	
1,510	1,510	Petition to institute a public use proceeding	
110	55	Petition to revive - unavoidable	
1,280	640	Petition to revive - unintentional	
1,280	640	Utility issue fee (or reissue)	
460	230	Design issue fee	
620	310	Plant issue fee	
130	130	Petitions to the Commissioner	
50	50	Processing fee under 37 CFR 1.17(q)	
180	180	Submission of Information Disclosure Stmt	
40	40	Recording each patent assignment per property (times number of properties)	
740	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
740	370	For each additional invention to be examined (37 CFR § 1.129(b))	
740	370	Request for Continued Examination (RCE)	
900	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0

## SUBMITTED BY

Name (Print/Type)

Ann C. Livingston

Registration No.  
(Attorney/Agent)

32,479

## Complete (if applicable)

Telephone

512.322.2634

Signature

Date

3/26/04

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Thomas E. Owen, et al.

Date Filed: March 26, 2004

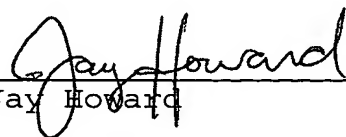
Title: MEASUREMENT OF NITROGEN CONTENT  
IN A GAS MIXTURE BY TRANSFORMING  
THE NITROGEN INTO A SUBSTANCE  
DETECTABLE WITH NONDISPERSIVE  
INFRARED DETECTION

Mail Stop Patent Application  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

CERTIFICATE OF MAILING BY EXPRESS MAIL

I hereby certify that the attached Patent Transmittal, Fee Transmittal, Patent Application, and Formal Drawings are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on this 26th day of March, 2004, and is addressed to the Mail Stop Patent Application, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

  
Jay Howard

Express Mail Receipt  
No. EV352394195US  
Attorney's Docket:  
090936.0505